

Hardware Installation Guide

Software Installation Supplement

Version 2.17.94.01

backpack 250

tape drive

Please Read This Information Before Installing the Software!

The software installation guide and software user's guide provided with your **backpack 250** tape drive are also sold with tape drives that require a plug-in card. There are some items in the user's guide which don't pertain to the **backpack 250** tape drive. This supplement clarifies the hardware and software installation and use of the **backpack 250** parallel port tape drive.

Please begin by performing the procedure listed under **HARDWARE INSTALLATION**. Next, read the information titled **FOR BOTH DOS AND WINDOWS VERSIONS**. Follow the steps in either **WINDOWS INSTALLATION** or **DOS INSTALLATION** to complete your installation.

ADVANCED OPTIONS contains additional information that will be helpful in using the **backpack 250** software.

Hardware Installation

Installing the **backpack 250** drive is a straightforward process. It consists of plugging the drive into your computer's parallel printer port. The instructions in this section will guide you step by step through the installation procedure. Perform the following steps to install the **backpack 250** drive:

- 1) Locate the parallel printer port connector on your computer. If you have more than one parallel printer port, it doesn't matter which one you use for the **backpack 250**.
- 2) If you have a printer connected to the parallel printer port, disconnect it and attach the printer cable to the printer port on the **backpack 250** drive.
- 3) Connect the **backpack 250** cable to the printer port on the computer.
- 4) Plug the **backpack 250** power unit into a wall outlet and attach the power cable to the power connector on the **backpack 250** drive.
- 5) Set the **backpack 250** power switch to the ON position.

Once you have completed the installation successfully, your computer should work exactly as it did before. If it doesn't, review the installation procedure and check for mistakes. If the problem persists, refer to the Troubleshooting section of this supplement to try to isolate the cause.

For Both DOS and Windows Versions...

This software is distributed on 3.5 inch 1.4MB media only.

If you do not have access to a 1.4MB drive, contact Micro Solutions and we'll make arrangements to get you 5.25 inch disks. Please have your serial number at hand when you call:

800 890 7227	Ext. 300 voice	(USA or Canada)
815-756-3411	Ext. 300 voice	(Anywhere)
	or	
815-756-2928	Fax	(Anywhere)

Ignore all references to I/O addresses, IRQ Levels, Interrupts and DMA Channels during the installation process.

Your software is pre-configured for the **backpack 250** parallel port tape drive which does not need a plug-in card.

There is only one diskette for the DOS version and one for Windows.

Backups and Restores use an easy three-step (What-Where-How) approach to defining the scope of the operation. For Backup, you don't need to specify Where since your software is pre-configured for the **backpack 250** parallel port drive.

Use a pre-formatted tape for the compatibility test

During software installation a backup and restore test will be performed on your drive. Be sure the tape cartridge has been formatted for use on a QIC-80 tape drive. If you insert an unformatted tape, the test will complete, but it will also format the tape which takes approximately 90 minutes.

Windows Installation

The **backpack 250** software requires at least 2MB of RAM for use under Windows. If you try to run with less it may fail. 4MB is the minimum recommended level for performance reasons.

Begin the installation by following the steps on pages 9-11 of the installation guide.

After the files are copied, click on RESTART WINDOWS, select the Backup group and double-click BACKUP FOR WINDOWS. Click on YES for configuration.

During configuration the software will search for a tape drive and will report that it has found a QIC-80 tape. Click on the box around the words QIC-80 TAPE to select it, then click on OK to confirm it.

Don't skip the compatibility test.

When the compatibility test finishes, you will be in the configure screen of the windows software. Click on BACKUP on the overhead tool bar to save your configuration and begin using your tape drive.

DOS Installation

Begin the installation by following the steps on pages 2-8 of the Software installation guide. The installation process is automatic. Confirm the settings, when asked, after each test. Pages 2-8 indicate the steps that will be performed. The actual sequence is different from the printed sequence.

Advanced Options

Changing default setup parameters

Many people's backup needs will be satisfied by selecting SPEED, SAFETY or DEFAULT under HOW TO BACK IT UP. You can however modify the DEFAULT setup, or create several custom setups with distinct names.

To change your backup settings, choose CUSTOMIZE under the "HOW" to back it up option. Choose SETTINGS under TAPE BACKUP OPTIONS. Choose a category and select the desired option. The current settings are continuously displayed as you make your selections. Clicking on SPEED, SAFETY or DEFAULT will restore the settings to their original condition.

When you are done with the current settings, click OK.

Pull down the FILE menu from the command menu. Select SAVE to make these settings permanent in the current setup file. Select SAVE AS and specify a file name to make these changes permanent in a new setup file.

To change setup files, pull down the FILE menu from the command menu. Select LOAD a setup file and specify your choice.

Data Compression affects backup speed

Whether it is faster to backup with or without data compression is dependent upon the CPU speed and type of parallel port your CPU has. The default setting of your software uses LOW data compression. You may wish to change your default setup parameters and try NO compression or HIGH compression. See which setting yields the highest MB/Min during backup. Backing up with NO compression will utilize more tape and limit you to 120MB per tape cartridge. In general, if you have a 486-DX or faster you will get better speed with compression. 386-DX or slower computers will generally get best speed with NO or LOW compression.

File Catalogs

As each Backup is performed a Catalog is created on the hard disk containing a list of all files and directories in the Backup set. Restore and Compare operations use the Catalog for file selection. It is necessary to know the name of the Catalog for each Backup set you wish to Restore or Compare.

DOS Users

Note the session number displayed on the screen during Backup. Keep the session number with the tape. The session number is the name of the Catalog for that Backup set.

Windows Users

Note the date and time of your Backup. Keep them with the tape. The date and time are the name of the Catalog for that Backup set.

If the Backup set you wish to restore from is not the last Backup set created, you'll need to specify the Catalog by using the mouse or keyboard to select the Catalog box in the Restore menu. This will display all of the Catalogs on hard disk. Select the Catalog that corresponds to the Backup set you wish to restore from.

When you are not sure which is the correct Catalog for a Backup set, select the Catalog pull-down menu from the overhead command menu in the Restore or Compare screens. Select REBUILD to read the tape and create a Catalog of the Backup set.

You may prefer to store a Catalog on each tape. This allows you to RETRIEVE them from the tape when you don't know the Catalog name. Retrieving is faster than rebuilding. To RETRIEVE, pull down the CATALOG menu from the command menu. Select RETRIEVE to read in the Catalog from your tape. You'll need to change your Backup settings to store Catalogs on tape. Refer to CHANGING DEFAULT SETUP PARAMETERS in this supplement to learn about changing your Backup settings.

More information can be found under Backup Catalogs in the DOS and Windows users guides.

Deleting an automatic scheduled event

For Windows

Click the Scheduler from the overhead command menu. CANCEL the ADD Event screen. Select the description of the event to delete from the scheduler window. Select DELETE. Close the scheduler event window.

For DOS

Follow the steps on pages 19-20 of the DOS Software users guide.

Troubleshooting

The **backpack 250** Tape Drive should not affect the operation of your existing computer software and hardware. If there seems to be a problem using the computer or **backpack 250** Tape Drive, read the following problem descriptions to see if they match those you are experiencing. If you can't resolve the problem, contact your local dealer for assistance, or call Micro Solutions at the phone number provided on the back of your **backpack 250** software User's Guide.

Do not try to backup or restore files which are currently in use.

Windows typically has several files open and active at any moment. Trying to restore a full disk backup using the Windows software will result in an attempt to overwrite files that are currently in use. Use caution whenever attempting a full disk restore.

One possible solution to restoring Windows is to restore it to an alternate directory, then exit Windows and use the DOS COPY command to copy the contents of the alternate directory to the Windows directory.

Attempts to Restore or Compare result in a "Please insert tape #1 of the backup set xxxxxxxx.xxx" message.

This will occur if the Catalog being used for file selection does not match the Backup set on the tape. Review FILE CATALOGS in this supplement or refer to Catalogs in the software users guide.

At the START of a Backup, the program prompts for a description of the Backup set but does not wait for it to be entered.

This will occur if the UNATTENDED BACKUP delay is not long enough. Review CHANGING DEFAULT SETUP PARAMETERS in this supplement to change your backup settings. Select a longer delay or disable unattended backup.

During Backup or Restore, the software is unable to create or delete a file in the \sentry directory.

The \sentry directory contains system files in use by the DOS UNDELETE utility. Either disable the UNDELETE utility before running the **backpack 250** software, or use the INCLUDE/EXCLUDE options under SELECT file names under WHAT to backup to exclude the \sentry directory.

During Backup or Restore, the software is unable to create or delete a file in the \windows, \qbwin, or other directory.

These directories contains system files in use by Windows, **backpack 250** or other programs. Use the INCLUDE/EXCLUDE options under SELECT file names under WHAT to backup to exclude the directory or specific files from the backup or restore operation. You may also select SKIP from the message window during the operation.

These messages could also occur if you have write-protected files on your hard disk. See the DOS ATTRIB command for information on eliminating a read-only attribute.

After you install the backpack 250 Tape Drive, the printer doesn't work properly.

This can occur if the power to the **backpack 250** drive is not ON. In some cases, the printer will appear to work even though the power switch is OFF. For reliable operation, make sure the **backpack 250** power switch is in the ON position and the power unit is plugged in securely.

Recommended Tape Cartridges

Standard length tapes (205 feet) have a capacity of 83MB uncompressed and approximately 166MB with optional software compression. Extended length tapes (307.5 feet) have a capacity of 125MB and approximately 250MB with optional software compression.

<i>Manufacturer</i>	<i>Unformatted Tape</i>		<i>Formatted Tape</i>	
	<i>Standard Length</i>	<i>Extended Length</i>	<i>Standard Length</i>	<i>Extended Length</i>
3M	DC2080	DC2120	DC2080 XIMAT	DC2120 XIMAT
Maxell	MC2080	MC2120	DC2080 QIC-80	DC2120 QIC-80
Sony	QD2080	QD2120	QD2080 QIC-80	QD2080 QIC-80